

STAT

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Power*

## MODERN OFFICE BUILDING UTILITIES ALTERNATIVES

Issues to be resolved by:

- customer definition
- ☐ assumption
- parametric inclusion in study

1.0 Electrical Loads Issues

Resolution of the following questions is needed in each of the following three categories:

- Critical loads (ie: those that can tolerate no interruptions)
  - Essential loads (ie: those that can tolerate only brief interruption without endangering the mission)
  - Utility loads (ie: general office space, technical maintenance, etc.)
- 1.1 What are the magnitudes of the connected loads?
  - 1.2 What are the duty cycles of the connected loads?
  - 1.3 What is the required quality of available power - ie: when is it considered not available?
  - 1.4 How many outages are acceptable per day, week, month and/or year, and for what maximum duration?
  - 1.5 Do the loads have any unusual characteristics or requirements, such as power bursts, cycling, etc.
  - 1.6 Is 400 Hz or DC power required?
  - 1.7 What is the geographic distribution of critical power use within the electronic centers?
  - 1.8 Are there any battery-operated communication systems?

2.0 Issues Related to Electrical Power

- 2.1 What are the statistics of the locally-available commercial power?
- 2.2 Is on-site generation permitted?

2.3 Shall co-generation be considered?

2.4 What is the ability of the facility operator to control the tenants relative to:

a) load growth, and

b) ability to shed loads?

### 3.0 Environmental Control Issues

3.1 Are there any special architectural features to be taken into account, such as vast window areas, underground construction, etc.?

3.2 What is the climate at the facility site?

3.3 What are the surface and geological conditions at the site?

3.4 What are the requirements on temperature and humidity level and tightness of control?

3.5 What are the cleanliness requirements?

### 4.0 General Issues

4.1 Are there any restrictions on the treatment of other utilities (water, waste, sewage)?

4.2 Are there any restrictions or dictates on fuels and what are their availabilities (natural gas, oil, coal, renewable energies)?

4.3 Are there any defined threats to be withstood or mitigated?

4.4 What is the expected level and quality of maintenance?

4.5 What are the timing requirements on

a) the study

b) construction and occupancy of the facility

c) life (amortization period) of the facility?

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